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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,829	01/20/2006	Timo Saares	1503-0176PUS1	8880
2292 7590 09/08/2008 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 EALL S CHURCH, VA 22040 0747			EXAMINER	
			AKRAM, IMRAN	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1795	
			NOTIFICATION DATE	DELIVERY MODE
			09/08/2008	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Application No.	Applicant(s)			
	10/532,829	SAARES, TIMO			
Office Action Summary	Examiner	Art Unit			
	IMRAN AKRAM	1795			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>26 Ag</u> This action is <b>FINAL</b> . 2b) ☑ This     Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-13 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-13 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or  Application Papers  9) ☐ The specification is objected to by the Examiner  10) ☐ The drawing(s) filed on 26 April 2005 is/are: a) ☐  Applicant may not request that any objection to the or	vn from consideration. relection requirement. r. ⊠ accepted or b)□ objected to l				
Replacement drawing sheet(s) including the correcti		• •			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 4/26/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rogers (US 4,583,992) in view of Bohn (WO 87/06680).
- 4. Regarding claims 1 and 2, Rogers discloses a grate **50** for a gas generator **10** adapted to operate in the gasifier of the gas generator so as to provide support to solid fuel fed thereon for combustion such as wood chips, peat, bark and hog fuel from forest harvesting and the like refuse fuel fed thereon, the cross sections of the gasifier and thus also its grate being substantially circular in shape (see figure 2) and the grate being equipped with substantially circular slots **52** having the same center point but a varying radius, whereby the circular slots are formed between the annular grate rings (see figure 3), and the grate having placed thereon a mass of balls **54** with a diameter larger

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than the width of the grate slots, characterized in that below the grate is mounted a member 36 that is rotatable about the center axis of the grate (column 2, lines 64-68). Rogers does not disclose projections extending upward through the circular grate slots. Bohn--in an invention for a gasifier—discloses the rotatable member is a rod-supported rake 46 and that the rake projections are pegs 38 extending upward from the rake rod so far that the tips of the pegs reach higher than the top surface of the grate rings (see figure 2). The purpose of these pegs, as disclosed in the last paragraph of page 1 of the machine translation, is to vibrate and shake up particles. It would have been obvious to one having ordinary skill in the art at the time of invention to added the pegs of Bohn to the circular grate openings of Rogers to break up particulars more effectively than the balls would do on their own.

- 5. Regarding claims 3 and 7, Rogers discloses that the grate rings are connected to each other by a support structure **68** that is situated above the top surface of the grate and simultaneously provides two or more compartments for the balls (see figure 3).
- 6. Regarding claim 4, Rogers discloses that that the support structure **68** of the grate rings comprises two planar members orthogonally crossed with each other so as to form four compartments for the balls (see figure 3), whereby the height of the planar members is selected to be greater than one and half times the ball diameter (see figure 1).
- 7. Regarding claims 5 and 8-10, Rogers discloses that that the balls are made from a ceramic material (column 3, lines 9-11).

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8. Regarding claims 6 and 11-13, Rogers discloses that the rotating speed of the member **46** is adjustable (column 9, lines 33-42).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to IMRAN AKRAM whose telephone number is (571)270-3241. The examiner can normally be reached on 10-7 Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexa Neckel can be reached on 571-272-1446. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

IΑ

/Alexa D. Neckel/ Supervisory Patent Examiner, Art Unit 1795 Application/Control Number: 10/532,829

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